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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/827,483	04/19/2004	Nien-Hua Pai	17389.49	3314
22913 7590 04/28/2008 WORKMAN NYDEGGER 60 EAST SOUTH TEMPLE 1000 EAGLE GATE TOWER SALT LAKE CITY, UT 84111				
EXAMINER				
WORKU, NEGUSSE				
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/827,483

**Applicant(s)**

PAI, NIEN-HUA

**Examiner**

NEGUSSIE WORKU

**Art Unit**

2625

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 19 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 14-20 is/are allowed.
- 6) ☒ Claim(s) 1-7, 12 and 13 is/are rejected.
- 7) ☒ Claim(s) 8-10 and 11 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SF-08)
- Paper No(s)/Mail Date 04/28/05
- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

1. This is a replay to the application filed on 04/19/04, in which, claims 1-20, are pending. Claims 1, 14 and 19 are independent, and claim 2-13, 15-19 and 20 are dependent.

#### ***Priority***

2. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

#### ***Information Disclosure Statement***

3. The information disclosure statement (IDS) submitted on 04/28/05, have been reviewed. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the examiner is considering the information disclosure statement.

#### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-7 and 12-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Han (USP 6, 621,603).

With respect to claim 1, Han (603) shows or discloses a dual-mode scanning apparatus (transmissive and reflective scanner as shown in fig 1) capable of scanning both transmissive and reflective objects, (col.4, lines 1-5) comprising: a scanning platform for placing thereon an object to be scanned (reflective scanner platform 132 and transmissive scanning platform 138 of fig 1, col.4, lines 1-10); a carriage module arranged under said scanning platform, (scanner chassis 144 moves along the rail for positioning 144 at any point, relative to the lens, col.4, lines 25-35) and comprising an active light source (light source 96 and 98 of fig 6) for emitting light, the light being reflected by said object to enter said carriage module in a reflective scanning mode (optical switching mirror 32, shows in fig 3, switches between reflective mode and transmissive mode of scanning, col.4, lines 50-55); and a light-guiding member (optical switching mirror via lens 122 and 24) arranged over said scanning platform for guiding the light emitted by said active light source to said object, col.4, lines 45-55) the light penetrating through said object to enter said carriage module in a transmissive scanning mode (light from light source reflected or transmitted via mirror 32, enter to scanning module CCD 30, in a transmissive or reflective scanning mode, col.4, lines 40-55).

With respect to claim 2, Han (603) shows or discloses a dual-mode scanning apparatus (transmissive and reflective scanner as shown in fig 1), wherein said scanning platform is transparent (system of fig 1, shows that having a transmissive and reflective scanning mode, as discussed in col.4, lines 40-50)..

With respect to claim 3, Han (603) shows or discloses a dual-mode scanning apparatus (transmissive and reflective scanner as shown in fig 1), wherein said active light source is a linear lamp (light source 96 and 98 are linear light source as shown in fig 6).

With respect to claim 4, Han (603) shows or discloses a dual-mode scanning apparatus (transmissive and reflective scanner as shown in fig 1) wherein said active light source is a U-shaped lamp (it is a designee choose to have a U-shaped light source).

With respect to claim 5, Han (603) shows or discloses a dual-mode scanning apparatus (transmissive and reflective scanner as shown in fig 1) wherein said object is placed at a designated region on said scanning platform in said transmissive scanning mode (scanning platform 132 and 132 are a designated area that the object to be scanned is placed, as shown in fig 1, col.4, lines 10-15)..

With respect to claim 6, Han (603) shows or discloses a dual-mode scanning apparatus (transmissive and reflective scanner as shown in fig 1), wherein said carriage module further comprises a light mask covering a portion of said active light source corresponding to said designated region in said transmissive scanning mode in order to prevent said object from direct illumination of said active light source (optical mirror 32 of fig 3, switch up and down between reflective mode and transmissive scanning mode, so that the light is diverted from entering the scanning module during reflective scanning, and therefore, mirror 32 serves as a light masking covering of active light, col.4, lines 45-55).

With respect to claim 7, Han (603) shows or discloses a dual-mode scanning apparatus (transmissive and reflective scanner as shown in fig 1), wherein said object is positioned with a holder that is attachable to and detachable from said designated region of said scanning platform (platform 138 of fig 1, positioned with a holder that is attachable to and detachable from said designated region of said scanning platform, see fig 1).

With respect to claim 12, Han (603) shows or discloses a dual-mode scanning apparatus (transmissive and reflective scanner as shown in fig 1), an image scanner (scanning system shown in fig 1, is an image scanner).

With respect to claim 13, Han (603) shows or discloses a dual-mode scanning apparatus (transmissive and reflective scanner as shown in fig 1) being a multifunction peripheral machine (scanner shown fig 1- through 6 is a multifunction device , in that having at least two function a transmissive or reflective scanning mode, col.4, lines 40-65).

***Allowable Subject Matter***

6. The following is a statement of reasons for the indication of allowable subject matter: Claims 14-20 are allowed.

With respect to claims 14-18 are allowed, for the reasons the prior art for the reason the prior art searched and of record neither anticipates nor suggests a dual-mode scanning apparatus capable of scanning both transmissive and reflective objects, comprising: a scanning platform for placing thereon an object to be scanned; a carriage module arranged under said scanning platform, and comprising an active light source for emitting light, the light being reflected by said object to enter said carriage module in a reflective scanning mode; and a light-guiding member arranged over said scanning platform for guiding the light emitted by said active light source to said object, the light penetrating through said object to enter said carriage module in a transmissive scanning mode; wherein said active light source includes a first portion positioned under a light inlet of said light-guiding member and a second portion positioned under said object, and substantially only the light emitted from the first portion of said active light source penetrates through said scanning platform in said transmissive scanning mode.

With respect to claims 19-20 are allowed, for the reasons the prior art for the reason the prior art searched and of record neither anticipates nor suggests a dual-mode scanning apparatus capable of scanning both transmissive and reflective objects, comprising: a scanning platform for placing thereon an object to be scanned; a carriage module arranged under said scanning platform, and comprising an active light source for emitting light, the light being reflected by said object to enter said carriage module in a reflective scanning mode; a light inlet for receiving and then reflecting the light emitted by said active light source in a specified direction; and a light-guiding element arranged in said specified direction relative to said reflective element for receiving the light emitted by said active light source and reflected by said reflective element, and scattering the light to penetrate through said object to enter said carriage module in said transmissive mode, wherein said active light source includes at least three illuminating units, and a middle one of said three illuminating units is turned off in said transmissive scanning mode in order to prevent said object from direct illumination of said active light source.

***Claims objected to having Allowable Subject Matter***

7. Claims 8-10 and 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.



With respect to claims 8-10, Objected to having allowable subject matter for the reasons the prior art for the reason the prior art searched and of record neither anticipates nor suggests the dual-mode scanning apparatus wherein said active light source comprises a plurality of segmental illuminating units, at least one of which is positioned corresponding to said designated region and turned off in said transmissive scanning mode in order to prevent said object from direct illumination of said active light source.

With respect to claim 11, Objected to having allowable subject matter for the reasons the prior art for the reason the prior art searched and of record neither anticipates nor suggests the dual-mode scanning apparatus wherein said light-guiding member comprises: at least one reflective element for reflecting the light emitted by said active light source in a specified direction; and a light-guiding plate arranged in said specified direction relative to said reflective element for receiving the light emitted by said active light source and reflected by said reflective element, and scattering the light to penetrate through said object in said transmissive scanning mode.

### ***Conclusion***

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to NEGUSSIE WORKU whose telephone number is (571)272-7472. The examiner can normally be reached on 9A-6PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached on 571-272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Negussie Worku/

Examiner, Art Unit 2625